

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

mV

				, , -	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/627,566	07/28/2000	Jonathan L. Goodwin	ATA-286	2331	
959	7590 10/01/2003		EXAMINER		
LAHIVE & 28 STATE S	COCKFIELD		BUI, V	/Y Q	
BOSTON, N			ART UNIT	PAPER NUMBER	
			3731	17	
			DATE MAILED: 10/01/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

^		Application No.	Applicant(s)	- /) -				
Office Action Summary								
		09/627,566	GOODWIN ET AL.					
	Onice Action Summary	Examiner	Art Unit					
	The MAILING DATE of this communication app	Vy Q. Bui	he correspondence address					
Period fo		Jears on the cover sheet with t	ne correspondence address					
THE N - Exten after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Isions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS to cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication ONED (35 U.S.C. § 133).	on.				
1)🖂	Responsive to communication(s) filed on 30.	<u>lune 2003</u> .						
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.						
3)□	Since this application is in condition for allow			; is				
Dispositi	closed in accordance with the practice under on of Claims	Ex рапе Quayle, 1935 C.D. 1	11, 453 O.G. 213.					
4)🖾	Claim(s) 1-3 and 6-9 is/are pending in the app	olication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-3 and 6-9</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
,	Claim(s) are subject to restriction and/o	or election requirement.						
• •	on Papers							
,	The specification is objected to by the Examine		Eveminer					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
11/	If approved, corrected drawings are required in re		,					
12) The oath or declaration is objected to by the Examiner.								
Priority u	ınder 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
·	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* 0	3. Copies of the certified copies of the price application from the International But the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.								
, —	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.							
	Acknowledgment is made of a claim for domes							
Attachmen	t(s)							
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)					

Application/Control Number: 09/627,566

Art Unit: 3731

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS et al (5,749,880) in view of KOWLIGI et al (5,466,509).

As to claims 1 and 4, BANAS (Fig. 7, 7B; col. 18, lines 51-60) discloses a stent-graft implant 100 comprising stent 116 sandwiched between inner cover 112 and outer cover 114 of expanded PTFE having IND in a range from 0.1-100 microns, inner cover 112 and outer cover 114 (each of a predetermined thickness) extend substantially along the entire length of the stent 116. BANAS does not disclose the expanded PTFE having IND of more than 100 microns. However, KOWLIGI (col. 2, lines 4-7; claim 1) discloses a ePTFE graft material having IND in the range from 10-200 microns or greater than 100 microns to provide a graft material having high porosity (KOWLIGI: column 2, lines 4-7). In view of KOWLIGI teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide ePTFE of IND greater than 100 microns for the BANAS's inner cover 112 or outer cover 114 as this configuration of portion of the inner and outer covers would facilitate forming of a graft having high. The fact that the Applicants use the cover/graft having IND >100 microns in the present stent-graft

Application/Control Number: 09/627,566

Art Unit: 3731

to expand the stent) from KOWGILI (to provide a high porosity for the graft) does not alter the conclusion that the cover/graft as claimed would be prima facie obvious from EANAS the cover/graft disclosed in the DAVILA reference." In re Lintner, 173 USPQ 560. In addition, even though BANAS and KOWGILI do not disclose graft material having IND of greater 100 microns to reduce a deployment pressure necessary to expand the stent-graft combination to less than 10 atmospheres, since every structural limitation as recited in the claims is included by the combination stent-graft of BANAS and KOWGILI (stent and cover/graft having IND greater than 100 microns), inherently, the stent-graft combination of BANAS and KOWGILI would require a reduced deployment pressure (less than 10 atmospheres for example).

As to claims 6 and 9, KOWGILI (Table in col. 3 shows wall thickness of 0.64 mm or about 0.026" >0.008".

2. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS and KOWGILI as applied to claims 1 and 6 above, and further in view of MYERS et al. (5,735,892).

BANAS and KOWGILI discloses substantially all structural limitations of the claimed invention, except for inner cover 112 is folded over stent 116. However, folding an inner cover over an outer surface of a stent to form an outer cover is well known in the art. For example, MYERS (Fig. 8) discloses inner cover 83 folded over the outer surface of stent 10 to form outer cover 85.

Application/Control Number: 09/627,566

Art Unit: 3731

3. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS and KOWGILI as applied to claims 1 and 6 above, and further in view of MYERS et al. (5,735,892).

As to claims 3 and 8, in addition to BANAS and KOWGILI, MYERS (Fig. 8) shows inner cover 83 folded over the outer surface of stent 10 to form outer cover 85. BANAS and KOWGILI do not show the second portion of the inner cover 83 folded over the first portion of the inner cover 83. Naturally, applying multiple folding layers over an object would provide extra securement between the folding layers and the object. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to fold the second portion of the inner cover 83 over the first portion of the inner cover 83 as this configuration would provide extra securement between MYERS stent 10 and graft 83. Beside the benefit of providing an extra securement between MYERS stent 10 and graft 83 as discussed above, the second folding of the second portion of the graft 83 does not appear to provide any significant improvement for the device's performance and therefore would not be considered as an significant novel feature of the instant application over the reference.

Response to Amendment

The Applicants' "Remarks" October 9, 2002 has been carefully considered but is moot in view of new rejections presented in this "Office Action".

All the references applied in the present rejection have filing dates prior to August 5, 1998, which is the date the applicants are claiming in the "Affidavit Under 37 CFR 1.131" entered on 6/30/2003.

Art Unit: 3731

Conclusion

Applicant's filing of the "Affidavit Under 37 CFR 1.131" entered on 6/30/2003 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vy Q. Bui whose telephone number is (703) 306-1382 and whose email address is vy.bui@uspto.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Milano, can be reached at (703) 308-2496. The fax number for this Unit is (703) 308-2708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at (703) 308-0858

VQB

9/16/2003.